### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11441523 Three-Phase : 324/6T Cooling method Frame : IC411 - TEFC Insulation class Mounting : F : F-1 Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Approx. weight<sup>3</sup> Altitude : 1000 m.a.s.l. : 251 kg Protection degree : IP55 Moment of inertia (J) : 0.5023 kgm<sup>2</sup> Design : B Output [HP] 25 20 20 25 20 25 25 Poles 8 8 8 8 8 8 8 50 50 Frequency [Hz] 60 50 50 50 50 Rated voltage [V] 380 400 230/460 380 400 415 415 Rated current [A] 42.3 71.8/35.9 35.3 35.6 36.4 41.4 41.1 L. R. Amperes [A] 373/187 177 192 200 178 190 197 LRC [A] 5.2x(Code 5.0x(Code | 5.4x(Code H) | 5.5x(Code J) | 4.2x(Code E) | 4.6x(Code F) | 4.8x(Code G) G) G) No load current [A] 22.2 24.6 19.6 40.0/20.0 19.6 22.2 24.6 Rated speed [RPM] 880 730 730 735 725 725 730 Slip [%] 2.22 2.67 2.67 2.00 3.33 3.33 2.67 Rated torque [kgfm] 20.6 19.9 19.9 19.7 25.0 25.0 24.9 Locked rotor torque [%] 200 190 210 240 150 170 190 Breakdown torque [%] 229 229 250 280 180 200 220 Service factor 1.25 1.15 1.15 1.15 1.15 1.15 1.15 Temperature rise 80 K 80 K 80 K 80 K 105 K 80 K 80 K 30s (cold) 30s (cold) Locked rotor time 41s (cold) 30s (cold) 30s (cold) 30s (cold) 30s (cold) 17s (hot) 23s (hot) 17s (hot) 17s (hot) 17s (hot) 17s (hot) 17s (hot) Noise level<sup>2</sup> 56.0 dB(A) 25% 50% 89.5 89.3 87.2 86.2 89.5 88.5 87.5 Efficiency (%) 75% 91.0 90.1 89.1 88.6 90.2 89.5 89.5 100% 91.0 89.6 89.6 89.6 88.5 89.5 89.5 25% 50% 0.51 0.51 0.46 0.42 0.58 0.53 0.49 Power Factor 75% 0.64 0.64 0.59 0.55 0.70 0.66 0.62 100% 0.71 0.71 0.67 0.64 0.75 0.72 0.70 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 9.5 9.5 9.5 9.5 9.5 9.5 9.5 P2 (0,5;1,0) 7.4 7.4 7.4 7.4 7.4 7.4 7.4 P3 (0,25;1,0) 6.5 6.5 6.5 6.5 6.5 6.5 6.5 P4 (0,9;0,5) 5.8 5.8 5.8 5.8 5.8 5.8 5.8 Losses (%) P5 (0,5;0,5) 3.9 3.9 3.9 3.9 3.9 3.9 3.9 P6 (0,5;0,25) 3.1 3.1 3.1 3.1 3.1 3.1 3.1 P7 2.2 2.2 2.2 2.2 2.2 2.2 2.2 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6312 C3 6212 C3 : 563 kgf Max. traction Sealing V'Ring V'Ring Max. compression : 814 kgf Lubrication interval 20000 h 20000 h 13 g Lubricant amount 21 g Mobil Polyrex EM Lubricant type This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA must be eliminated. (1) Looking the motor from the shaft end. MG-1. Performed Checked Rev. **Changes Summary** Date Performed by Checked by Page Revision 29/10/2024 1/9 Date

# DATA SHEET



Three Pha	se Induction Motor - Squirrel Cage			шец
Customer	:			
Notes USABLE @208\	/ 79.4A SF 1.15 SFA 91.3A			
Rev.	Changes Summary	Performed	Checked	Date

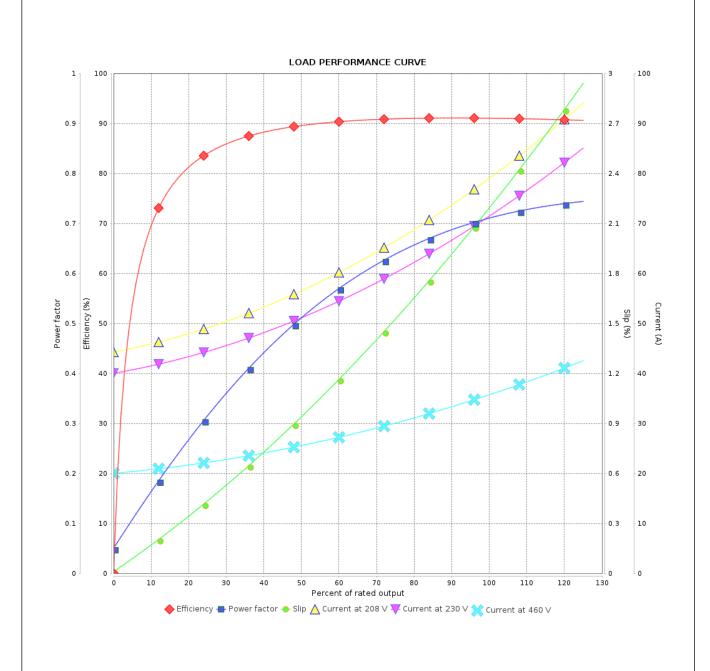
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	29/10/2024			2/9	

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11441523



Performance	: 230/460 V 60 Hz 8P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 71.8/35.9 A : 5.2 : 20.6 kgfm : 200 % : 229 % : 880 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.5023 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	

raica speca	. 00	oo ipiii	Design		. 0	
Rev.		Changes Summary	1	Performed	Checked	Date
Performed by						
Checked by		-			Page	Revision
Date	29/10/2024	1			3/9	

### Three Phase Induction Motor - Squirrel Cage

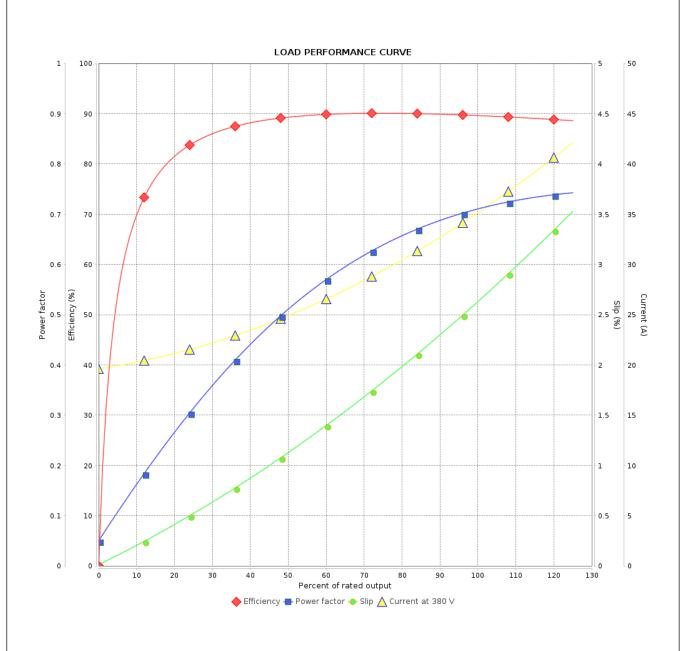


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11441523



Performance	: 380 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.3 A : 5.0 : 19.9 kgfm : 190 % : 229 % : 730 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class tor	: 0.5023 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	2
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

4/9

29/10/2024

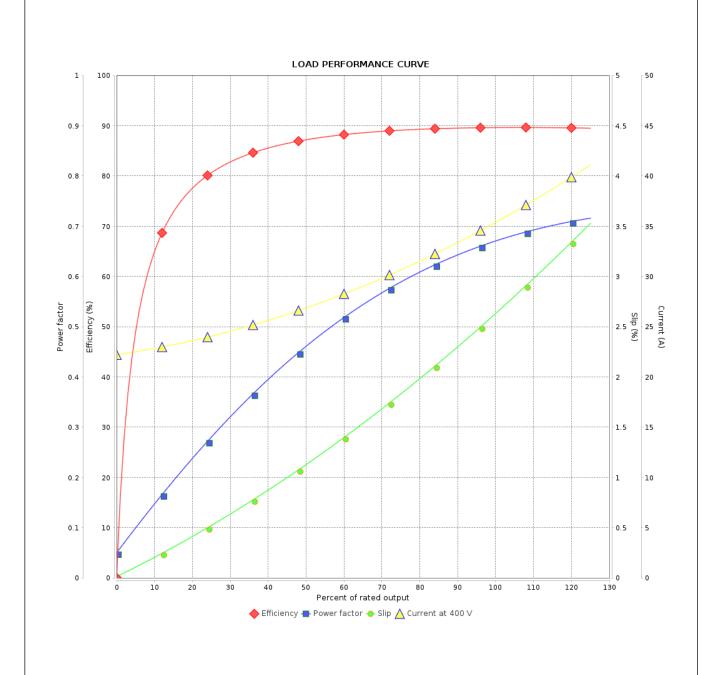
Date

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11441523



Performance		: 400 V 50 Hz 8P IE	3				
Rated current		: 35.6 A	Mo	ment of	inertia (J)	: 0.5023 kgm	2
LRC		: 5.4	Du	ity cycle	. ,	: Cont.(S1)	
Rated torque		: 19.9 kgfm	Ins	sulation	class	: F ` ´	
Locked rotor tord	que	: 210 %	Se	rvice fac	ctor	: 1.15	
Breakdown torqu	ue	: 250 %	Ter	mperatu	re rise	: 80 K	
Rated speed		: 730 rpm	De	sign		: B	
Rev.		Changes Summa	ary		Performed	Checked	Date

•		•			
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	29/10/2024			5/9	

### Three Phase Induction Motor - Squirrel Cage

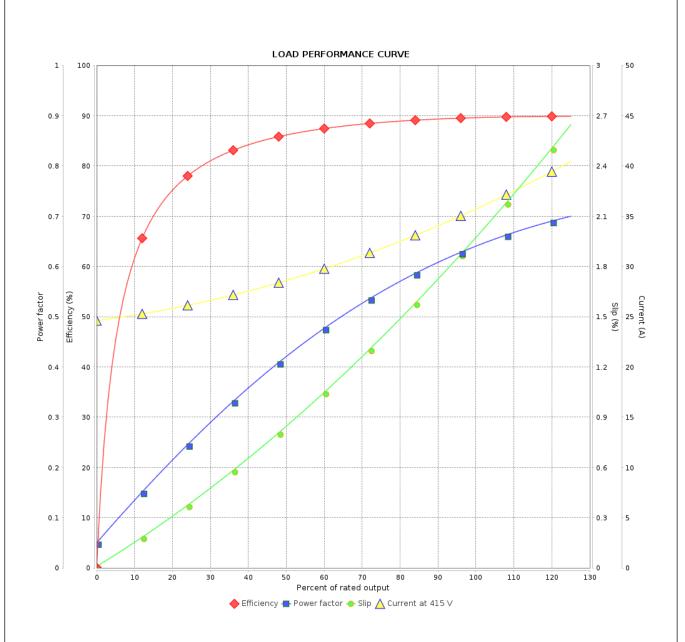


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11441523



Performance	: 415 V 50 Hz 8P IE3				
Rated current	: 36.4 A	Moment of	inertia (J)	: 0.5023 kgm²	
LRC	: 5.5	Duty cycle		: Cont.(S1)	
Rated torque	: 19.7 kgfm	Insulation	class	: F	
Locked rotor torque	: 240 %	Service factor		: 1.15	
Breakdown torque	: 280 %	Temperature rise		: 80 K	
Rated speed	: 735 rpm	Design		: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

6/9

29/10/2024

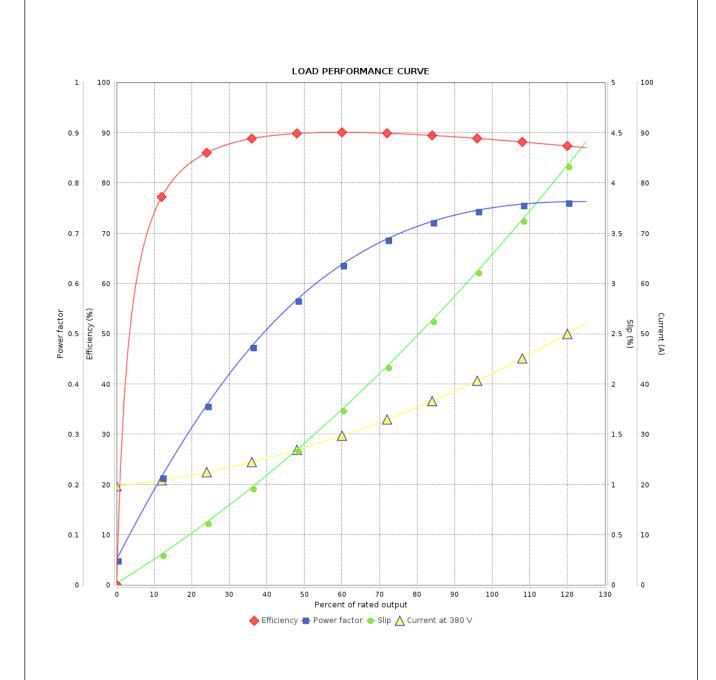
Date

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11441523



Performance	: 380 V 50 Hz 8P IE	:1			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 42.3 A : 4.2 : 25.0 kgfm : 150 % : 180 % : 725 rpm	Moment of Duty cycl Insulation Service for Temperate Design	n class actor	: 0.5023 kgm : Cont.(S1) : F : 1.15 : 105 K : B	2
Rev.	Changes Summ		Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	29/10/2024		7/9	

### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

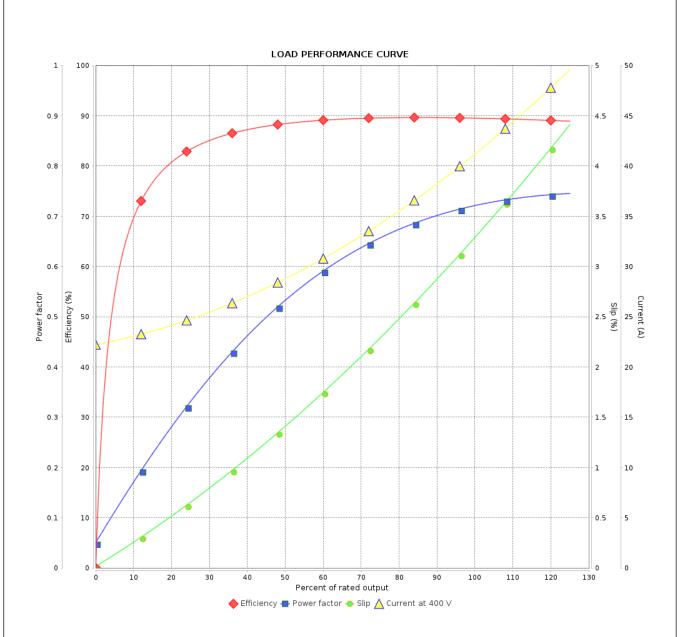
Date

29/10/2024

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11441523



Performance	:	400 V 50 Hz 8P IE	Ξ2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : :	41.4 A 4.6 25.0 kgfm 170 % 200 % 725 rpm	Du Ins Se Te	oment of uty cycle sulation ervice fac emperatu esign	class ctor	: 0.5023 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.		Changes Summ	nary		Performed	Checked	Date
Performed by							

Page

8/9

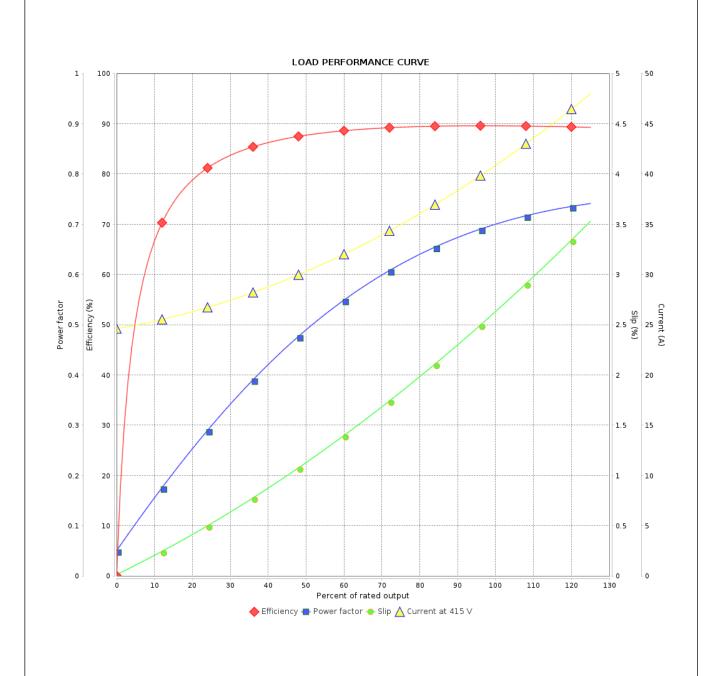
Revision

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11441523



Performance	: 415 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 41.1 A : 4.8 : 24.9 kgfm : 190 % : 220 % : 730 rpm	Moment of Duty cycl Insulation Service for Temperations	ı class actor	: 0.5023 kgm : Cont.(S1) : F : 1.15 : 80 K : B	2
Rev.	Changes Summary		Performed	Checked	Date
	<u> </u>				

			3		. =	
Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	29/10/2024				9/9	

